

# First New Multi-Purpose Steel Is Announced By Carnegie-Illinois

The first new multiple-purpose steel since the war ended was announced yesterday by J. L. Perry, president of Carnegie-Illinois Steel Corporation, a United States Steel subsidiary. Known as "Stainless W" because it is a member of that glamorous family of alloy steels, the new composition belongs rather to the class of wrought steels and will find broad use in the industrial machines of postwar America.

Brought to perfection and patented by research technicians of historic Wood Works of Carnegie-Illinois at McKeesport, Pa., this newest member of the stainless family is said by Mr. Perry to combine for the first time the high strength and corrosion resistance of standard 18-8 stainless steels with hardenability obtained through heat treatment. As a result of these three vital industrial properties, Stainless W is expected to find wide application in wrought and cast forms in the machinery field and is also available in strip, sheet, wire and tube form.

Experience with this new steel during the war, because of which it has been wrapped in secrecy until now, demonstrated that it can be treated successfully in standard equipment, and no difficulty is encountered through warping or dimensional changes in the course of hardening operations. It is readily fabricated, and high joint efficiencies may be achieved by spot welding, as well as with metallic arc, atomic hydrogen and heliarc welding equipment. Machinability, as proved by shop tests, is slightly better than with austenitic 18-8 stainless steel.

Preliminary commercial applications of Stainless W indicate its usefulness where strength, hardness and corrosion resistance, all or in part, are essential as in cans and rollers in food handling and bottling equipment. It also shows promise for application in bearings, pump valves and seats, plug valves and other parts subjected to service in food handling and bottling equipment, as well as in the oil and chemical industries. Its strength and corrosion resistance promise further advantages for structural members.

Of the chemical elements that are ingredients of the new composition, titanium is said by Carnegie-Illinois metallurgists to give it its prime distinction, the optimum proportion of this element being found in range of 0.40 to 1%. In addition to titanium, for which columbium may be substituted at will to

produce precipitation hardening, and iron, Stainless W contains carbon, nitrogen, manganese, silicon, nickel, chromium and aluminum.

"Unlike the standard 18-8 austenitic types of stainless steel, Stainless W is magnetic," said R. E. Zimmerman, vice president of United States Steel Corporation of Delaware in charge of research and technology, when asked to comment on the new Carnegie-Illinois product. "This may mean much in future usefulness that is not immediately apparent. We also know that it can be subjected to drawing operations and given intermediate anneal as often as desired in the course of forming and then given a thermal age-hardening treatment to develop high physical properties on the entire piece. This characteristic makes the steel a promising material for parts requiring forming and ultimate high strength in the finished piece."

Stainless W can be rolled into billets, bars, sheets or shapes, drawn into wire or pierced for tubing—or it may be wrought as desired to any shape or size. The finished product is unique in that it is amenable to heat treatment to develop uniformity of high hardness throughout large cross sections. In addition, it possesses high resistance to most corrosive media. Results of 100-hour immersion tests in boiling, copper sulphate-sulphuric acid solution, evaluated by bend tests and microscopic examination, showed this steel is not susceptible to intergranular corrosion, and three and one-half years of exposure in marine, industrial and semi-rural atmospheres demonstrated it is equivalent in corrosion resistance to the more common 18-8 types.

Technological details concerning this new steel will be presented in a technical paper, "A Precipitation Hardening Stainless Steel of the 18% Chromium-8% Nickel Type," by R. Smith, E. H. Wyche and W. W. Gorr before the February meeting of the American Institute of Mining and Metallurgical Engineers in Chicago. The authors of this paper are metals technicians who played a major role in the development of Stainless W.

The "W" was added to the new steel's name in honor of Wood Works, where this steel was born in wartime, its birth being kept secret due to military necessities. Wood Works is one of the oldest plants of Carnegie-Illinois. It was erected in McKeesport in 1851 for the production of hammered iron sheets to compete with imported Russian iron. The founder of the plant went abroad in the fifties to study Russian production methods, then returned to McKeesport and operated his plant with such success that the foreign product was soon driven from the American market. The plant now specializes in the rolling of stainless steels for special purposes.

**JOHN AGAPITO**  
John Agapito has been advanced to Quartermaster 3/c according to a recent letter from Japan to his parents, Mr. and Mrs. John Agapito, of 804 Anaheim ave. In service for about 16 months, he has been serving aboard a mine sweeper.

# Contributions For Christmas Seal Fund Needed

"Thousands of purchasers of 1945 Christmas Seals in Los Angeles County have accepted their responsibility in the fight against tuberculosis," Charles C. Reed, president of the Combined Christmas Seal Fund, stated today. "If the thousands more who have as yet failed to send in their contributions, do so immediately, it will be possible for the campaign to reach the \$327,522 total received in 1944," he said.

Reed pointed out that although the final count of money received during the Seal Sale will not be in for another few weeks, indications are that the Seal sale can be successful if those who received Seals and have not responded do so now.

"The Los Angeles County Tuberculosis and Health Association is grateful to the residents of the county who have wholeheartedly supported the annual seal sale," Reed said. "With the funds provided we will be able, during the coming year, to use our mobile x-ray unit more extensively in industrial plants for free chest x-rays to detect early cases of tuberculosis and heart disease, increase the numbers of tuberculin tests in the schools and provide additional educational material to the general public on the cause and prevention of tuberculosis and heart diseases," he emphasized.



MR. AND MRS. C. A. BENZEL

Mr. and Mrs. C. A. Benzel of 2815 Andrea ave., residents of Torrance for the past 25 years, were the surprised honorees at a farewell party arranged for their home by the Ladies Aid of the First Lutheran Church. The couple, who leave soon to make their home in Anaheim, received a handsome vase, a group gift from their guests. Refreshments were served. Those present were Mr. and Mrs. E. A. Schwartz, Mr. and Mrs. William Hauck, Mr. and Mrs. I. O. Kasten, Mr. and Mrs. Royal Friedley and son, and Mrs. Anna Carlson, Helen Miller, Edith Mechleng, Beth Hocking, Katherine Gossiaux, Billie Kerber, Anna Spangler, Dorothy Mearing, Bertha Hannebrink, Helen Hannebrink, Mimi Kracht, Anna Bay, Geneva Nelson and Nettie Bortnam.

# OBITUARY

**JOHN B. PETTAS**  
Funeral services were conducted Jan. 12 for John B. Pettas, 1816 Manhattan pl., who died last Jan. 9 in a Los Angeles hospital following a long illness. He was born in Greece, June 22, 1890, and was a resident of this community for the past 36 years. Rev. George Maustakidis of the Greek Orthodox Church officiated at the services in the Stone and Myers Chapel. Burial followed in the Hollywood cemetery. Survivors are, three brothers and two sisters, all living in Zanta, Greece; a cousin, Peter S. Giatras, 1732 Cabrillo ave.

**LILLIAN M. FRYE**  
Funeral services for Lillian M. Frye, 55, who died Tuesday, will be conducted in Motell Chapel, Long Beach, tomorrow at 11:00 a.m. Mrs. Frye had made her home with her sister, Mrs. J. P. Groome, 1021 Cravens ave., and is survived by her widower, Earl E. Frye, of San Pedro; a son and daughter-in-law, Mr. and Mrs. Jack T. Frye, Long Beach; Mrs. C. H. Crantz, a sister, living in Minneapolis, Minn. Interment will be in the Sunnyside Cemetery, Long Beach.

# Meanest Man Steals Bibles From Automobile

The "meanest man in town" ransacked the 1933 Chevrolet sedan owned and operated by Alexander Phillipsburg, 1739 S. Western ave., Torrance, when he stalled his car in the fog at the corner of Vermont ave. and Pacific Coast Highway Sunday night. Phillipsburg pleads with the person taking his two Bibles and tools to return them to him at once. Paramount in his loss are the two Bibles with marked passages which Phillipsburg uses every day, one of the Bibles costing \$17.00 at the time of purchase.

**SAWS STOLEN**  
A pair of craftsman's saws were stolen from 215 N. Palos Verdes dr., according to Matthew M. Gracin, 28415 Governor ave., who reported their value at \$200.

# Bank of America Reports Progress In All Departments During Past Year

Bank of America's year end statement of condition reveals that the bank has made progress in all departments of its activities, with deposits, total resources, loans, securities, investments and capital funds at new high levels.

At December 31, 1945, deposits totaled \$5,839,307,000, an increase of \$28,000,000 during the year. U. S. War Loan deposits, included in this total, amounted to \$439,404,000.

Total resources were \$5,626,063,000, a gain of \$1,016,839,000 over a year ago. Loans and discounts outstanding at the year end aggregated \$1,018,741,000, an increase of \$124,306,000 over a year ago. Investments in securities amounted to \$3,533,172,000, an increase of \$793,108,000 over the previous year end. The increase was chiefly in U. S. Government obligations, which at December 31 totaled \$3,125,746,000, of which approximately \$1,700,000,000 were due or callable within one year.

At December 31, capital funds amounted to \$229,594,000 after payment of \$13,608,556 in dividends, as compared with \$219,000,000 at the previous year end after dividends of \$10,408,570. Dividends were paid in 1945 at the rate of \$1.60 a share on the common stock and \$2 a share on the preferred stock.

Earnings for the year were \$45,591,000. From this total, \$10,648,000 was reserved for depreciation of bank premises and other real estate and amortization of bond premiums, and \$450,000 was set up in reserves and applied to the revaluation of assets and absorption of losses other than loans. A profit-sharing bonus of \$1,520,000 was provided for employees. From the earnings total there was also deducted an amount of \$9,442,000 net which was added to the "Reserve for Bad Debts." This reserve, a provision for losses which may develop in the future, stood at \$18,106,000 at the year end.

During the year, with publication of its statement of September 29, the bank was widely heralded for attaining first rank among the banks of the country, which L. M. Giannini, president, regarded as a tribute to

# State Agency Pays Taxes To Treasury

Even a State Agency is a large taxpayer. According to Mr. Paul Scharrenberg, Chairman of the Board of Directors, the State Compensation Insurance Fund has sent a check to the State Treasurer for \$300,979.53 in payment of its taxes on 1944 business. Since 1917, the State Compensation Insurance Fund has paid taxes amounting to \$3,838,894.66 which has been credited to the General Fund of the State.

The State Compensation Insurance Fund is entirely self-supporting, paying all of its expenses, including State taxes at the same rate as other workmen's compensation insurance carriers. The tax rate on 1944 business is 2.5% of net premium income.

# Welcome Home Veterans

S/Sgt. Harry A. York, 1104 1/2 Beach ave., has been reported discharged in San Pedro following his arrival from Pearl Harbor.

T4 Robert V. Farns, Torrance, recently arrived from Salpan, was discharged at San Pedro.

T3 Pearson E. Wadsworth, husband of Mrs. Helene S. Wadsworth, 1680 Arlington ave., is home following his discharge from the Army.

Leo L. LaFond, 2575 W. Carson, has been reported discharged in Ft. Lewis, Wash.

Richard Hugh Barnby, F. 2/c, 2975 Torrance blvd., has been discharged in Shoaemaker, Calif., last Jan. 11, according to reports.

Marguerite Armstrong, Y. 1/c, daughter of Mr. and Mrs. W. S. Armstrong, 1448 W. Margaret st., has been reported discharged from the Navy in Washington, D. C., after nearly three years active duty.

T4 Frederick Hoffman, son of Mr. and Mrs. G. H. Hoffman, 2349 W. 24th st., Lomita, is one of 3,500 Army veterans whom the Navy is returning to the States for discharge aboard the USS Barnstable. This ship left Tacoma, Dec. 18, and was scheduled to arrive in San Francisco Jan. 7.

The USS Barnstable is an attack transport of the type which is designed for both mothers and ping-pong bases to the Japanese home islands and was responsible for maintaining continuous supply lines to the Fleet, to ground troops and to shore based air forces.

Guy W. DeWitt, TM 2/c, 2307 Cabrillo ave., received his discharge at the separation center in Shoaemaker, and now is reported home.

Fowler L. G. Hawks, SF3c, USNR, husband of Mrs. Bonnie Hawks, of Torrance, is one of 1,277 high-point Navy veterans whom the Navy is returning to the States for discharge aboard the U.S.S. Sibley, an attack transport of the Navy's famed "Magic Carpet" fleet. This ship left Guam, Dec. 22, and was scheduled to arrive in San Francisco about Jan. 5.

# M. H. Freedman Columbia Steel Division Head

Marion H. Freedman has been appointed Division Manager of the Seattle office of Columbia Steel Company, a U. S. Steel Corporation subsidiary, succeeding E. J. Howay, who is retiring after 39 years of service with the Corporation.

Freedman started with the United States Steel Corporation in 1920 in San Francisco. In 1931 he was transferred to the Seattle office of Columbia Steel Company as a salesman, specializing in tubular products. Subsequently he was advanced to the position of Assistant Manager of Sales and Manager of Sales.

In his new post, Freedman will have charge of Columbia Steel Company's sales activities in the state of Washington. He is a member of the Washington Athletic Club and the Rainier Golf Club.

# Peacetime Jobs Using War-Learned Crafts Found In Steel Research

Many new peacetime jobs to employ both Winnie the Welder and her brother Bill at their war-learned craft are in sight as a result of research in the construction of steel frame farm buildings by welding together the structural members on the site. Conducted on a long-time basis by University of Wisconsin through a grant by Carnegie-Illinois Steel Corporation, a United States Steel subsidiary, and broadened by engineers of the steel producer itself, the development program proposes low-cost barns, silos, cribs, dairy plants and the armed forces are seeking new industries in which to ply their trade. In addition to those in military service, more than 364,000 welders were at work in war plants at the peak of production—not far below the 427,000 carpenters employed throughout the United States at approximately the same time, a number said by economists to be inadequate to service the probable postwar building market.

If the Carnegie-Illinois Site-Welded System of Construction is widely adopted for farm buildings, welders will find opportunities for their skill in the small-building trade. A further incentive to the development of this type of construction is the ready availability of welding equipment. In addition to purchases by repair shops, many farmers are buying welding sets, and manufacturers are producing them in constantly increasing quantities.

No attempt is being made to limit the use of materials for this field of construction strictly to steel. Where other materials can be employed more economically and to functional advantage, they may be used. In fact, the structures being designed by Carnegie-Illinois combine economically several building materials—lumber, asphalt, asbestos, cement and others—assembled on a basic steel structure, for steel provides maximum strength and rigidity at low cost.

It is generally believed that an active postwar building period will create shortages in some common building materials. If steel is used for the frame work and possibly other parts of farm buildings, the research authorities believe this new type of construction will ease shortages and permit the building industry to progress more rapidly.

# University Offers New Nurse Courses

The University of Southern California announces a new successive Nursery School Training Course, beginning Tuesday, Jan. 8. Classes meet Tuesday, Thursday and Friday from 4:10 to 6:30 p.m. in Room 104, Bridge Hall. The course is designed for both mothers and teachers, preparing them to obtain the temporary permit granted by the State Department of Education to teach in nursery schools in this state.

Studies include the subjects of nursery school methods, observation and directed teaching, and education and family life.

Course is four weeks in length and four units of college credit is given. The University of Southern California has trained a great number of teachers in these special classes. Beginning salaries range from \$180 to \$165 per month.

Mrs. Edna Charles, who has trained many teachers and supervisors now employed in various Southern California communities, will direct the new class.

Detailed information regarding the nursery school program may be obtained by calling University College office, Richmond 4111, Sta. 415 or (night phone) Richmond 0104.

**MILTON T. LANGUM**  
Milton T. Langum, Torrance fireman, has been host to his parents, Mr. and Mrs. J. N. Langum of Forest Grove, Ore., who have been visiting here for their first glimpse of their new grandson, seven-month-old Michael John.

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# What All Drivers Should Know

Prepared By The Department of Motor Vehicles

**DIRECTIONS:** These questions are Official and the same you are asked when you apply for your Driver's License. Test your knowledge by marking yes or no in the space at the end of the line. Correct answers printed below.

1. When driving on a highway with several lanes, should you straddle the white line driving in two lanes at once?  
2. After you pass a car should you make sure you are safely out of the way, then get back to the right hand lane?  
3. May you pass another car which has stopped at a crosswalk for a pedestrian?  
4. Another driver is making a left turn in front of you before you reach the corner. If you blow your horn must he wait for you?  
5. If you are going to turn right should you get into the line nearest the curb or right side?  
6. May you stop at a red curb long enough to get out and mail a letter?

### Answers

1. No. You should drive entirely within a single lane and not move from such lane until you are sure you can do so with safety. (Section 528(a) Vehicle Code)
2. Yes. In overtaking another vehicle proceeding in the same direction you must pass to the left at a safe distance and not again drive to the right side of the roadway until safely clear of the overtaken vehicle. (Section 528(a) Vehicle Code)
3. No. "Whenever any vehicle has stopped at a marked crosswalk or at any unmarked crosswalk at an intersection to permit a pedestrian to cross the roadway, the driver of any other vehicle approaching from the rear shall not overtake and pass such stopped vehicle." (Section 560(a) Vehicle Code)
4. No. The other driver being in the intersection first and being in the process of turning has the right of way over vehicles approaching from the opposite direction. (Section 551 Vehicle Code)
5. Yes. "Both the approach for a right turn and a right turn shall be made from that portion of the roadway as close as practicable to the right-hand curb or edge of the highway." (Section 540(a) Vehicle Code)
6. No. "Red indicates no stopping, standing or parking, whether the vehicle is attended or unattended, except that a bus may stop in a red zone marked on sign-posted as a bus loading zone." (Section 472(a) Vehicle Code)